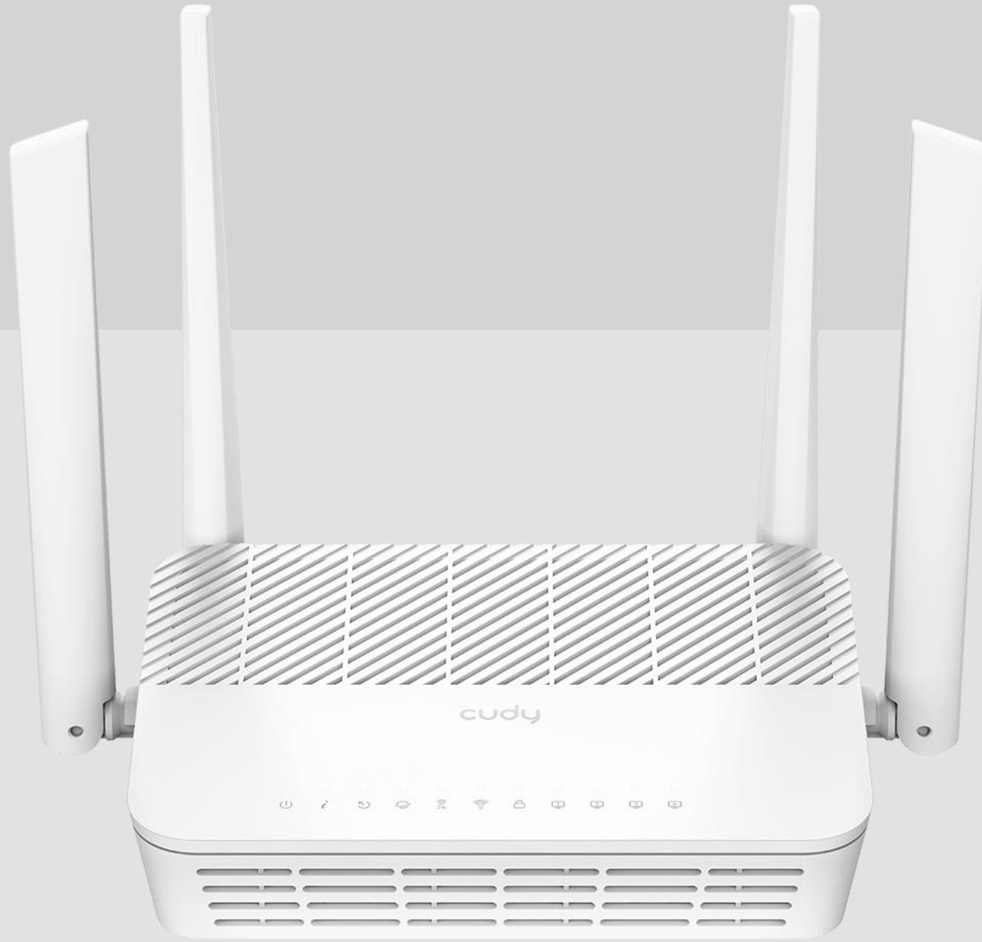
Model: GP3000V 1.0

AX3000 Wireless Dual-Band Gigabit VoIP xPON Router



Datasheet

Highlights

An xPON Wi-Fi 6 router featuring VoIP, GPON/EPON dual modes, CWMP, OMCI, IPTV (IGMP Proxy/Bridge/Tag VLAN), and EasyMesh, suitable for FTTH solution deployment with enhanced voice services.

- Max 2.5 Gbps GPON / 1.25 Gbps EPON
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 1× SC/APC Slot
- 4× GbE and 1× FXS RJ11
- TR069/TR369
- EasyMesh

Actual wireless data throughput will vary as a result of network conditions, client limitations, and environmental factors including building layout, obstacles, and client location.

Package Content

- GP3000V
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

Model Version	GP3000V 1.0	
CPU	CPU Details	1 GHz Dual-Core
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR3L
xPON	Protocols	• GPON (ITU G. 984 standard | Class B+) • EPON (802.3ah)
	Speed	GPON: 2.488 Gbps Downstream / 1.244 Gbps Upstream,EPON: 1.25 Gbps Downstream / Upstream
	Wavelength	TX: 1310 nm RX: 1490 nm
	Max Transmission Distance	20 km
Wireless	5 GHz Wi-Fi Speed	2402 Mbps
	2.4 GHz Wi-Fi Speed	574 Mbps
	5 GHz Wi-Fi Streams	2 Spatial Streams

Wireless	2.4 GHz Wi-Fi Streams	2 Spatial Streams
	Wi-Fi Antennas	4× Fixed
	FEM or PA/LNA	5 GHz: 2× External, 2.4 GHz: 2× External
	Beamforming	True
	Range Performance	Max: 170 m (558 ft) Tested in open-space environments with minimal interference. Actual WiFi range may vary depending on layout and wall materials. Refer to the Wall Performance specifications for placement suggestions.
	Wall Performance	Two wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 20 cm (7")
Interfaces	Fiber Ports	1× SC/APC
	Gigabit RJ45 Ports	4

Hardware Specs

Interfaces	Ethernet Notes	1× LAN/WAN port, the rest are LAN ports.
	FXS Ports	1× RJ11
	USB-A 3.0 Ports	Optional for ISP Order
Buttons and LEDs	LED	Power, PON, LOS, Internet, 2.4 GHz Wi-Fi, 5 GHz Wi-Fi, WPS, LAN
	Physical Buttons	Power On/Off Button, Reset Button, WPS Button, Wi-Fi On/Off Button
Power	Power Input Type	DC Jack
	Power Methods	DC
	Power Input	12V⎓1.5A
	Power Adapter In the Box	Input: 100-240V~, 50/60Hz Output: 12V⎓1.5A

Reliability	Environment	Operating Temperature: 0 ℃ ~ 40 ℃ (32 ℉ ~104 ℉) Storage Temperature: -40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉) Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 95% non-condensing
Certifications	FCC, CE	
Mechanical	Casing Material	Plastic
	Installation	• Desktop • Wall-mount
	Dimension	Main Part: 173×123.8×33 mm 6.81×4.87×1.3 inches Antenna: 171 mm 6.73 inches
	Product Weight	363.4 g (12.82 oz.)

Hardware Specs

Package Content	• GP3000V • Power Adapter • Ethernet Cable • Installation Guide	
Ordering Information	Retail Package Dimension	EU/US: 304×268×54 mm 11.97×10.55×2.13 inches
	Retail Package Weight	EU: 790.0 g (27.87 oz.)
	Carton Net Weight	EU: 15.8 kg (34.83 lbs)
	Carton Gross Weight	EU: 17.1 kg (37.7 lbs)
	Units per Carton	EU/US: 20
	Carton Dimension	EU/US: 55.6×55.5×32.5 cm 21.89×21.85×12.8 inches

Software Specs

Model Version	GP3000V 1.0	
Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Wi-Fi Efficiency	• OFDMA • MU-MIMO • BSS Color
	Max Capacity	256
	Recommended Client Upper Limit	100
	Wi-Fi Channel Width	Auto/20/40/80/160 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	WPS	True
General	Operation Modes	xPON Wi-Fi Router
	EasyMesh Version	EasyMesh R2

Software Specs

General	Mesh Backhaul	• Wireless Backhaul • Wired Backhaul
	WAN Mode	• DHCP • Static IP • PPPOE • Bridge
Network	QoS	• 4 Queues • 802.1p Classification • DSCP • Traffic Shaping • By MAC • By IP • By Port
	DHCP	• Address Reservation • DHCP Client List • Server
	IP Versions	IPv4/IPv6
	IPv6 Protocols	• Dynamic (SLAAC/DHCPv6) • Static (Fixed IP)
	Multicast	True

Network	IPTV/VLAN	• Bridge • Tag VLAN • VoIP VLAN • IPTV VLAN
	TTL Customization	• Extend • Spoof • Custom
	IGMP	IGMP Proxy
	Forwarding	• Port Forwarding • UPnP • DMZ
	Firewall	SPI Firewall
Utilities	DNS Options	Manual DNS
	Online Detection	True
Management	All Devices Management	• MAC Filter • IP/MAC Binding
	Content Management	• Domain Filtering • IP Filtering • Port Filtering

Software Specs

System	Local Control Method	Config Web Page
	Remote Control Method	• TR069/TR098/TR111/TR143/TR181/TR369 • OMCI • OAM
	Firmware Upgrade	Local Update
	Reliability	Backup and Restore
	Diagnostic Tools	• Diagnosis • Ping • Traceroute • NSLookup • System Log

System	Languages	• English • Hindi • Bengali • French • Portuguese • Russian • Urdu • Indonesian • German • Arabic • Spanish • Simplified Chinese